JENKINS

1. **BUILDING SIMPLE JAVA PROGRAM ON JENKINS**
2. **BUILDING SIMPLE JAVA APPLICATION FROM GITHUB USING JENKINS**

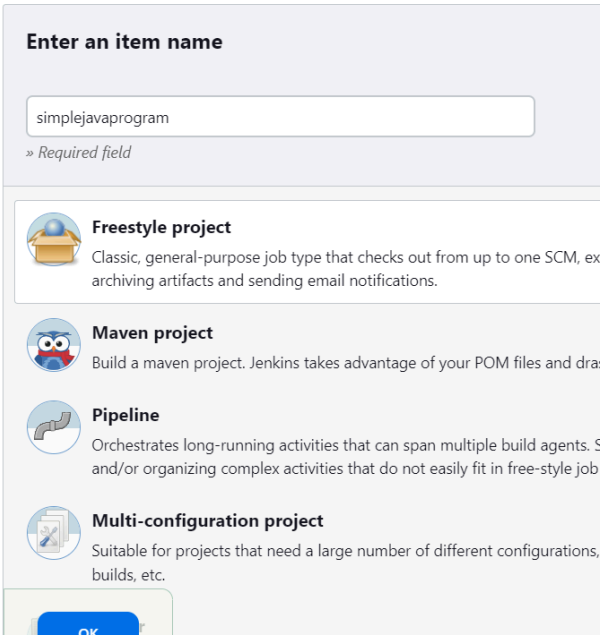
BUILDING SIMPLE JAVA PROGRAM ON JENKINS

Step 1: Create a simple java program on your computer

Create a simple java program like HelloWorld.java on your computer and save.

Step 2: Creating new item on Jenkins

- ➔ Login to Jenkins and click New Item.
- ➔ Enter the item name of your choice and select Freestyle project.



- ➔ Now keep everything as default and scroll down to **Build Steps** and add code as below.

```
cd C:\python
java HelloWorld.java
```

Update the path to your java file and change the file name.

Now click **Save.**

From the left hand side click **Build now** and your application shall work successfully.
Under **Build History** select your build and go to console output and the output of your program will be displayed there.

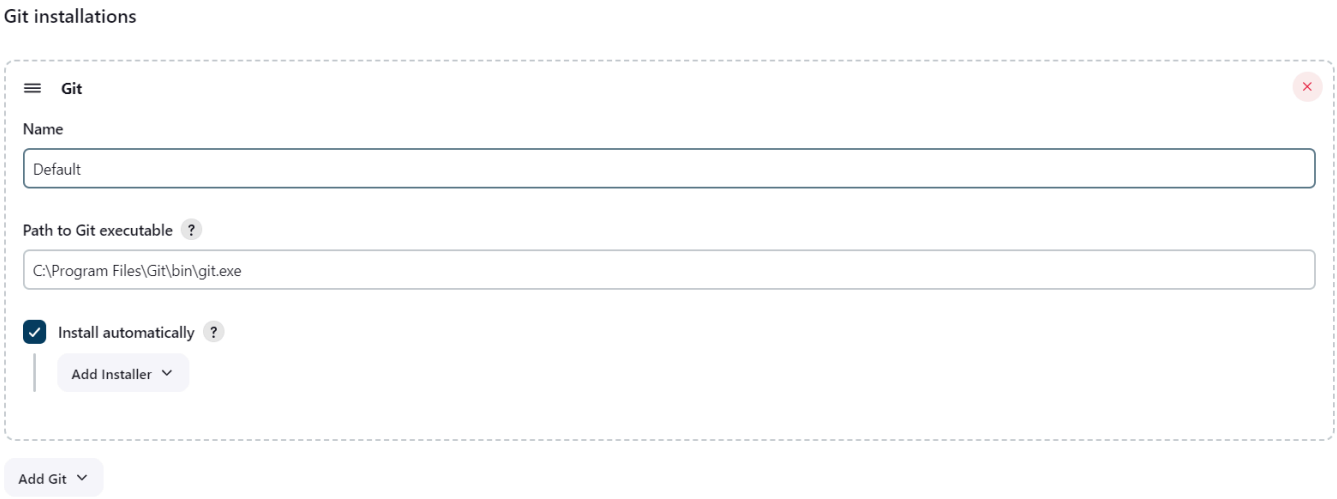
BUILDING SIMPLE JAVA APPLICATION FROM GITHUB USING JENKINS

Step 1: Adding git in Jenkins Tools

Login to Jenkins > Click on manage jenkins on the dashboard > Go to Tools under System Configuration

In Tools under git installation select add and fill in the details as shown below.

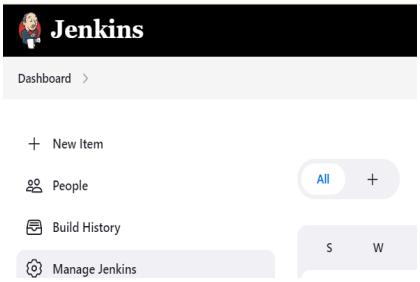
Name- give it as default itself.
Path to executable files- add your git.exe path in your computer after the git installation.



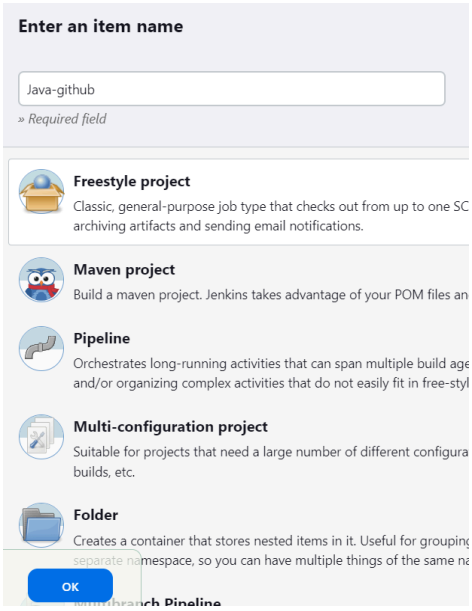
Then, Save and go back to jenkins dashboard.

Step 2: Creating new item

Now in the dashboard click New item.



- ➔ Enter the item name (you can give any name as you wish).
- ➔ Select Freestyle project.
- ➔ Click OK.

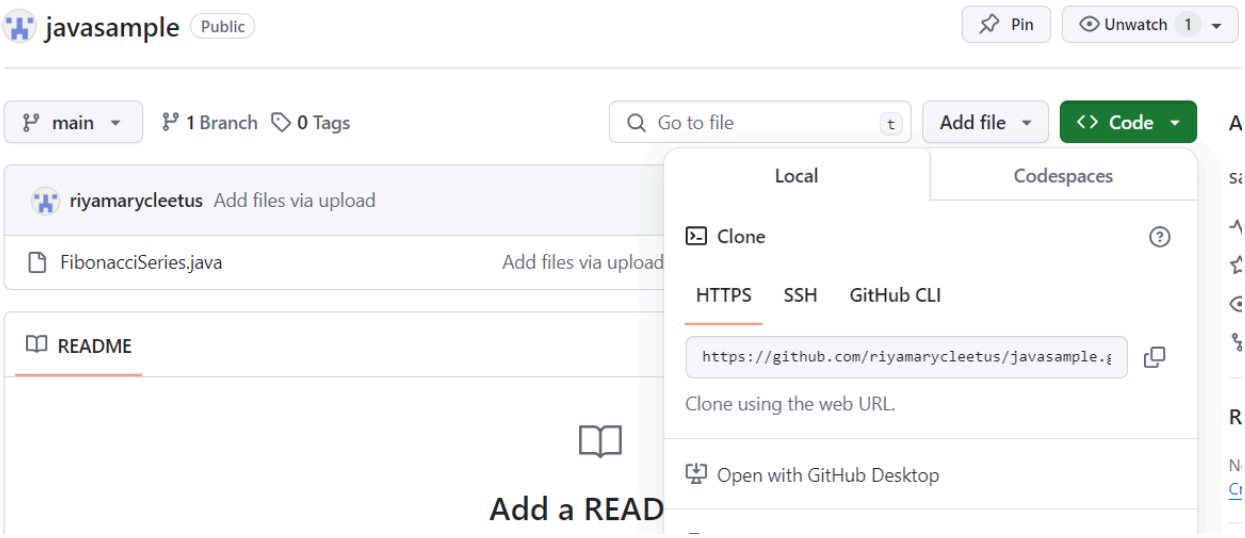


Now under description you can give the description of your application or you can leave it blank.

Leave everything else as default and follow the next steps.

Now under **Source Code Management,**

- ➔ Select **Git**
- ➔ Under the Repository url give the path of your repository in github.
  For example, I created a simple FibonacciSeries java program and added it into a new github repository called javasample.



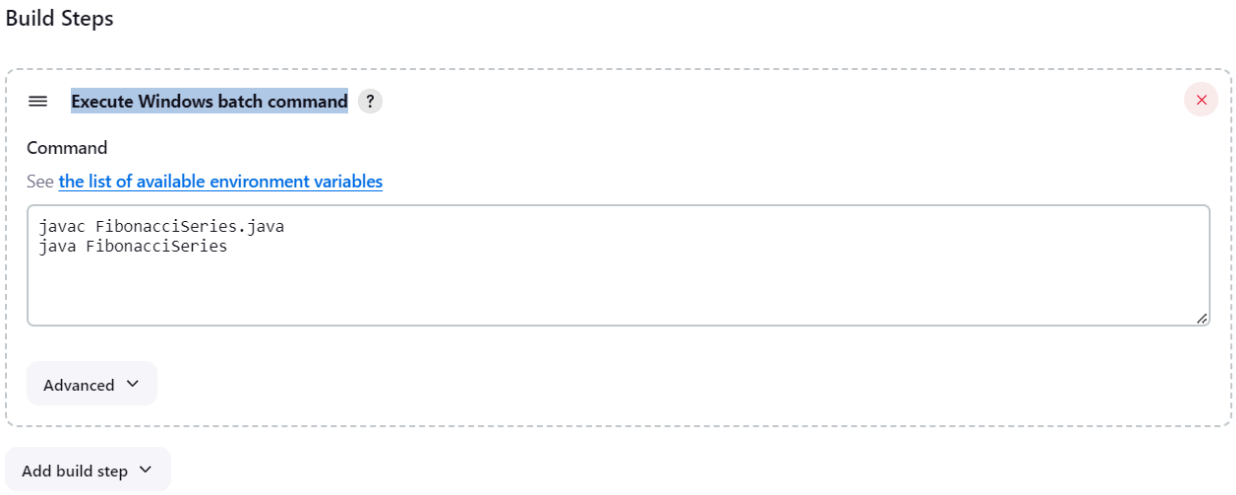
After creating the repository copy the repository path from the **< > Code** option on the right hand side of the page as shown in the above image. **Under https copy the corresponding link of the repository and paste it under the Repository url in jenkins.**

➔ Now under **Branches to build** by default it will be */master , change it to */main or any other branch as in your github.

Next, under **Build Steps**

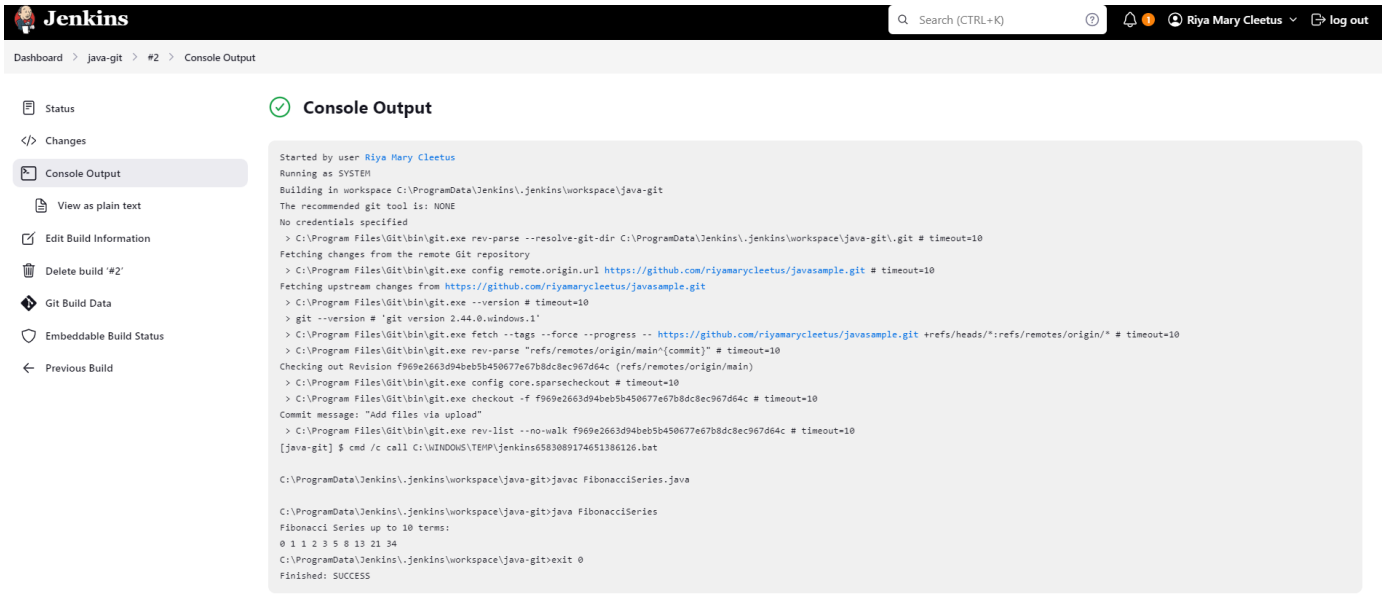
➔ Select **Execute Windows batch command**
➔ Now add the java compilation and run command of your application as below.

```
javac FibonacciSeries.java
java FibonacciSeries
```



Now click **Save.**

From the left hand side click **Build now** and your application shall work successfully.
Under **Build History** select your build and go to console output and the output of your program will be displayed there.


Jenkins
Search (CTRL+K)
Riya Mary Cleetus
log out
Dashboard
java-git
#2
Console Output
Status
Changes
Console Output
View as plain text
Edit Build Information
Delete build '#2'
Git Build Data
Embeddable Build Status
Previous Build
Console Output
Started by user Riya Mary Cleetus
Running as SYSTEM
Building in workspace C:\ProgramData\Jenkins\.jenkins\workspace\java-git
The recommended git tool is: NONE
No credentials specified
> C:\Program Files\Git\bin\git.exe rev-parse --resolve-git-dir C:\ProgramData\Jenkins\.jenkins\workspace\java-git\.git # timeout=10
Fetching changes from the remote Git repository
> C:\Program Files\Git\bin\git.exe config remote.origin.url https://github.com/riyamarycleetus/javasample.git # timeout=10
Fetching upstream changes from https://github.com/riyamarycleetus/javasample.git
> C:\Program Files\Git\bin\git.exe --version # timeout=10
> git --version # 'git version 2.44.0.windows.1'
> C:\Program Files\Git\bin\git.exe fetch --tags --force --progress -- https://github.com/riyamarycleetus/javasample.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> C:\Program Files\Git\bin\git.exe rev-parse "refs/remotes/origin/main^{commit}" # timeout=10
Checking out Revision f969e2663d94beb5b450677e67b8dc8ec967d64c (refs/remotes/origin/main)
> C:\Program Files\Git\bin\git.exe config core.sparsecheckout # timeout=10
> C:\Program Files\Git\bin\git.exe checkout -f f969e2663d94beb5b450677e67b8dc8ec967d64c # timeout=10
Commit message: "Add files via upload"
> C:\Program Files\Git\bin\git.exe rev-list --no-walk f969e2663d94beb5b450677e67b8dc8ec967d64c # timeout=10
[java-git] $ cmd /c call C:\WINDOWS\TEMP\jenkins6583089174651386126.bat
C:\ProgramData\Jenkins\.jenkins\workspace\java-git>javac FibonacciSeries.java
C:\ProgramData\Jenkins\.jenkins\workspace\java-git>java FibonacciSeries
Fibonacci Series up to 10 terms:
0 1 1 2 3 5 8 13 21 34
C:\ProgramData\Jenkins\.jenkins\workspace\java-git>exit 0
Finished: SUCCESS